QC ABSTRACT

Nameof Work:: Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	Materials	_	1	1	Pass
2	CC Blocks-6'	160.40 Sqm	1	1	Pass
3	M10	119.6 Cum	6	6	Pass
4	Precast Slab-100mm	91.80 Sqm	1	1	Pass
5	Kerb Stones	124.50 Sqm	1	1	Pass
6	Cobble Stones-60mm	290.25 Sqm	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/VP/W.No.12/2023-2024 Date: 26.04.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
AGENCY	:	**Sri. V Ponnuswamy, Contractor, Bangalore.**
NAME OF THE WORK	:	Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		March - 2023
DATE OF TESTING		24.04.2023 to 26.04.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	332 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	3 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.50 %	-

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Job No.: CACE/BBMP/VP/W.No.12/2023-2024 Date : 26.04.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. V Ponnuswamy, Contractor, Bangalore.**

Name of Work : Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.

Date of Testing : 26.04.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	73	7.30	7.30	92.7	90-100
2.36	175	17.50	24.80	75.2	75-100
1.18	181	18.10	42.90	57.1	55-90
600 Micron	179	17.90	60.80	39.2	35-59
300 Micron	248	24.80	85.60	14.4	8-30
150 Micron	90	9.00	94.60	5.4	0-10

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Job No.: CACE/BBMP/VP/W.No.12/2023-2024 Date : 24.04.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. V Ponnuswamy, Contractor, Bangalore.**

Name of Work : Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.

Date of Testing : 24.04.2023

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	21	2.10	2.10	97.9	90-100
1.18	82	8.20	10.30	89.7	70-100
600 Micron	129	12.90	23.20	76.8	40-100
300 Micron	245	24.50	47.70	52.3	5-70
150 Micron	492	49.20	96.90	3.1	0-15

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Job No.: CACE/BBMP/VP/W.No.12/2023-2024 Date : 26.04.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. V Ponnuswamy, Contractor, Bangalore.**

Name of Work : Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.

Date of Testing : 26.04.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	198	4.0	4.0	96.0	95-100
10	2549	51.0	54.9	45.1	25-55
4.75	1985	39.7	94.6	5.4	0-10

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Job No.: CACE/BBMP/VP/W.No.12/2023-2024 Date : 26.04.2023

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. V Ponnuswamy, Contractor, Bangalore.**

Name of the Work : Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.

Date of Testing : 26.04.2023

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	25.9	258.9	4.32	2158.33	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	26.3	260.1	4.34	2191.67	
3	Block 3	26.7	262.7	4.38	2225.00	
4	Block 4	26.8	265.3	4.42	2233.33	

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Job No.: CACE/BBMP/VP/W.No.12/2023-2024 Date: 21.06.2023

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Contractor	:	**: Sri. V Ponnuswamy, Contractor, Bangalore.**
Name of Work	:	: Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.
No.of Sample Tested	:	03
Date of Testing	:	21.06.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.378	2436.88	1.58	0.955	32.90	16.76	18.10	17.28	21.59
2	50.00	81.00	0.385	2420.73	1.62	0.959	33.20	16.91	18.26	17.51	21.89
3	50.00	83.00	0.392	2405.35	1.66	0.963	33.50	17.06	18.43	17.75	22.19

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Job No.: CACE/BBMP/VP/W.No.12/2023-2024 Date: 23.06.2023

KERB STONE (CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	:	**: Sri. V Ponnuswamy, Contractor, Bangalore.**
Name of Work	:	: Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.
No.of Sample Tested	:	03
Date of Testing	:	23.06.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	70.00	0.338	2459.17	1.40	0.935	33.30	16.96	18.32	17.13	21.41
2	50.00	72.00	0.345	2440.38	1.44	0.940	33.60	17.11	18.48	17.36	21.70
3	50.00	74.00	0.351	2415.71	1.48	0.944	34.10	17.37	18.76	17.70	22.13

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Job No.: **CACE/BBMP/VP/W.No.12/2023-2024** Date: **26.06.2023**

TEST REPORT

Client	:	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	:	**Sri. V Ponnuswamy, Contractor, Bangalore.**
Name of the work	:	Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.
Type of the test	:	Physical tests on Paver Blocks
Date of Testing	:	26.06.2023
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	60.18	60.17
2	02	60.16	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	694.8	24,200	28.65	286.5	Minimum required Compressive Strength of Individual Units 281 Kg/ m^2
2	02	697.5	24,200	28.96	289.6	

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Job No.: CACE/BBMP/VP/W.No.12/2023-2024 Date: 22.06.2023

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Contractor : **Sri. V Ponnuswamy, Contractor, Bangalore.**

Name of the work : Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2023	22.06.2023	8.145	278.1	12.36
2	25.05.2023	22.06.2023	8.152	279.8	12.44
3	25.05.2023	22.06.2023	8.163	280.3	12.46

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Job No.: CACE/BBMP/VP/W.No.12/2023-2024 Date: 22.06.2023

TEST REPORT ON CONCRETE CUBES

Client	**: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Contractor	**: Sri. V Ponnuswamy, Contractor, Bangalore.**
Name of the work	: Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{10}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2023	22.06.2023	8.192	284.9	12.66
2	25.05.2023	22.06.2023	8.197	286.1	12.72
3	25.05.2023	22.06.2023	8.204	287.4	12.77

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TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Contractor : **Sri. V Ponnuswamy, Contractor, Bangalore.**

Name of the work : Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2023	22.06.2023	8.160	282.3	12.55
2	25.05.2023	22.06.2023	8.167	284.1	12.63
3	25.05.2023	22.06.2023	8.177	285.9	12.71

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TEST REPORT ON CONCRETE CUBES

Client	**: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Contractor	**: Sri. V Ponnuswamy, Contractor, Bangalore.**
Name of the work	: Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{10}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.05.2023	26.06.2023	8.149	276.5	12.29
2	29.05.2023	26.06.2023	8.157	278.1	12.36
3	29.05.2023	26.06.2023	8.169	279.2	12.41

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TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Contractor : **Sri. V Ponnuswamy, Contractor, Bangalore.**

Name of the work : Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.05.2023	26.06.2023	8.175	282.7	12.56
2	29.05.2023	26.06.2023	8.191	285.1	12.67
3	29.05.2023	26.06.2023	8.189	283.5	12.60

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/VP/W.No.12/2023-2024 Date: 26.06.2023

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Contractor : **Sri. V Ponnuswamy, Contractor, Bangalore.**

Name of the work : Improvements to Footpaths in cross roads of Kodigehalli in ward no 12 Kodigehalli.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.05.2023	26.06.2023	8.172	284.8	12.66
2	29.05.2023	26.06.2023	8.183	286.1	12.72
3	29.05.2023	26.06.2023	8.189	289.3	12.86

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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